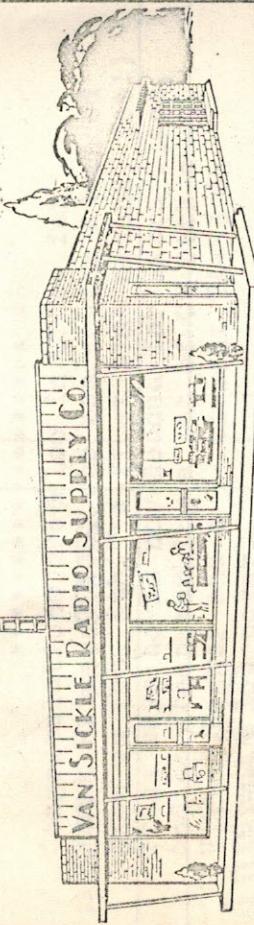


Gene

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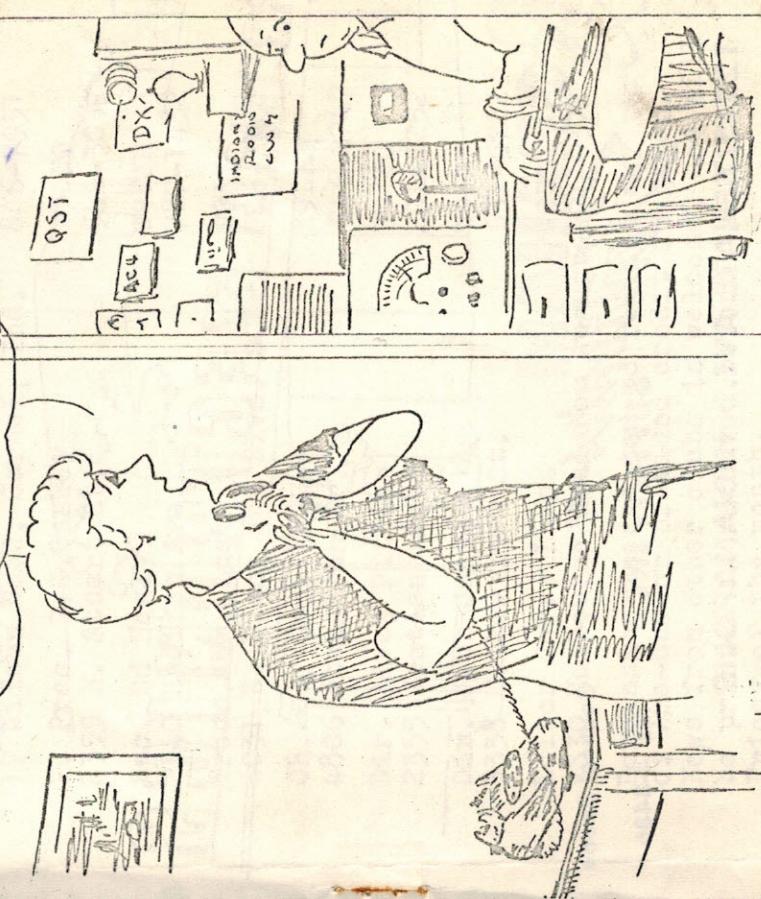
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Ama-Chewer is published monthly by and for the members of the Indianapolis Radio Club and all amateurs in the Indianapolis area. The publication is mailed to all members and subscribers. Non-members may subscribe for \$1.50 per year.

The Indianapolis Radio Club meets on the second and fourth Friday nights of each month except July and August, in the Indianapolis Park Board Bldg. at 29th and Harding Sts. Guests are welcome, and only an interest in amateur radio is necessary to attend. Meetings start promptly at 8:00 P.M., E.S.T.

Club Officers

Pres. Earl Terrill	WA9HCQ
17 Wilson Road, Carmel, Ind.	846-7951
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2540 Madison Ave.	787-1432
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Permission is granted to reprint any part of Ama-Chewer provided credit is given. News from other clubs is welcome, and will be printed if received before the first Friday of the month.

THE PRESIDENT'S FREQUENCY

Here is March again, and Spring is just around the corner. It's the time of year to put up the new antenna amid the XYL's flowers, and you must convince her of its beauty. Those tall masts supporting an inverted vee sets up yard apart from the neighbors, u tell her. After all u say, it must be a great improvement, for nobody slows his car to look at the neighbor's yard, wondering wat he has. They can tell a Genius must live where the pipes are tall and the wires many.

Now we must take a look at the old antenna to see wat caused the SWR to reach a new high so suddenly. U check for loose connections and corroded contacts, the elements on the beam look kind of strange laid low by an inconsiderate wind. The beam is pointed west, that's strange, the rotor indicator says it's painted south.

U walk into the house, talking to yourself, The Old Lady gives u 'the look ur used to seein', and reminds u the damn fool who put it up that way during the blizzard was none other than Him Self HI HI.

Always some unpleasant job to do to water down the joys of RAG CHEWIN'.

CU all at the next club meeting- I'll be there. Will u?

73, The Prez Terry WA9JQH

Another new ham on the air is Ben Gaither, WNN9YCA. With just a little assist from JJC, Ben is on with Heath gear. Ben is also one of them dern telescope nuts.

Don't forget Dayton Hamvention Apr., 27th. Several guys from here always go, so there should be no lack of someone to go with.

February 23rd- Dick Judkins gave the club another one of his always excellent talks, this time on integrated circuits. Dick started his talk by explaining how IC's were made by a photo process or silk screening the components on a substrate which was supplanted by a vacuum process for the monolithic or thin film IC. He told how an amazing number of circuits can be contained in a very small volume, and how IC's perform better than discrete circuitry due in part to their small size. Dick said that in IC the active components are cheaper and easier to make than the passive components, that is resistors, capacitors, and inductances, and that often active components are performing the functions that resistors, etc. perform in discrete circuitry. Dick then demonstrated some of the gear he and Brice Benson had built using IC, and concluded his talk with some of the precautions to be observed when using IC.

Program Preview

March 8th- Business meeting
March 22nd- Art Schultz, W9BR "The Feeding and Tuning of Antennas"
April 8th- Bill Luech, W9AI "The Wonderful World of CW"
April 22nd- Ind. Bell Film
May 10th - Business meeting
May 24th - Homebrew nite- Start now with your construction project.

June 14th- Business meeting *starts suddenly*
June 28th- Swap and Shop- Its not too early to start cleaning up and filling that box to bring along.

Any of the nights listed as a business mtg. are apt to have a hum-dinger of a program, subject of which will be announced later, so don't think you won't miss anything if you don't come.

We are living in a society in which everyone wants sewers, but no one wants to dig the ditch.

Known to most of us as "BILL" is William Lueth, W9AI, (formerly W9DSC) who is one of the backbones of the Indianapolis Radio Club. Bill's activity does not end with the club, however, he serves where he is needed. For the past two years, he has operated W9QVJY, the radio station of The Disciples Amateur Radio Fellowship, and kept schedules with the missionary ham stations in the Congo and in South America. Bill is right on time and schedule twice a week and "holds the fort" until the QSO is finished. Even a paid operator could not do better. Besides operating, he finds time to help other fellows with various ham projects. At his own QTH he is more or less a strict CW man, but does spill over into 2 meter fone on FM. Anyway Bill is news within news, so we want to let you know that we are proud of him. (PS Now please don't flood Bill with lots of extra work.)

Jim W9CKB

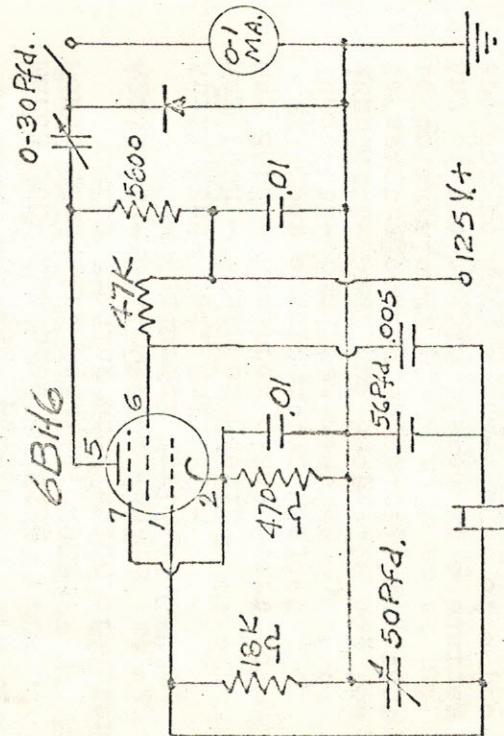
TECH TOPICS

A High and Low Band Signal Gen. Xtal checker

Hey, you owners of high and low band 'M rcvrs and xmtrs! Have you often wished for a rock steady, low level, signal source you could use in touching up the tuning of your rcvr? You have probably tried using your grid dip osc., and found that the freq. wandered all over the map while you were tuning. The only answer is xtal control. You may have had vibrations of special xtals, doublers, and more doublers, etc. to get a rock steady signal at say 147 mc., but the job can be done using a simple xtal osc. circuit and the xtal out of the companion xmtr to the rcvr you wish to retune. The circuit shown on page 4 was originally built up as a unit to check xtal activity. While in the process, it was necessary to check the output. That is the reason for the diode and meter in the output. Quite by accident I detected a nice steady signal on a 147 mc. rcvr while checking a 3200 kc rock (actually the 48th harmonic.)

Apparently the diode shunting the output greatly enhances the harmonic output, making it useful on 17mc and even in tuning a 450 mc rcvr using a 12 mc xtal. A word about setup and use; You will notice a 50mmfd variable in the circuit. This is for setting to a precise freq. in the following manner. Have your xmtr operating, tune your comm. rcvr to the xmtr xtal freq (fundamental stamped on holder), you may have to couple the rcvr input with a piece of wire to the xmtr osc tube. Tune to zero beat and lock the rcvr tuning. Transfer the xtal to the tet osc. Now with the 50mmfd variable bring the test osc to zero beat. Now the test osc is on the same freq as the xmtr. There you have it - a few resistors, one tube, and a few condensers, what could be simpler? If you don't need the xtal checking feature, forget the meter, but leave the diode in place. Diode is unknown voltage, abt 8megs reverse resistance and 5000 ohms forward.

SIGNAL GEN.-XTAL CHECKER
SEE PAGE 5 DE W9AI



Twenty Years Ago

Dry Disc rectifiers was the topic of the talk by W9WXN, Milton E. Gamble of the P.R. Mallory Co. Gee, we have come a long way since then rectifier wise, that is, but it was a mainstay in those days. A Mississin signal shifter was advertised in Ama-Chewer by Howard Severeid, W9DPL. (I think he still has it if you are interested. Ed. note.)

The Indiana Traffic Net was operating 5 days a week on 3656 Kcs. Tom Clerklin, W9ZCD, a new ham, was on 80, and Bill Lueth ex W9DSC now W9AI reported the loss of his antenna in a storm. Bob Annis was lazily floating down the Mississippi on a vacation, and will wonders never cease, D.J. Angus, W9CYQ was heard on 75 tone enjoying every minute of it.

Arnold Dickmeyer had a novel way of curing BC1 (That means Broadcast Interference to you young TVI squirts). He simply invited the complainant to club with him where he got the bug- no more complaints. Don Davis, W9JYP was given the ultimatum by his XYL. He had been converting a BC-348 to AC operation and his use of the kitchen table forced his wife to ask whether he wanted to eat or ham. Well, he wanted to do both, so he fixed up an upstairs room for hamming and continued to eat downstairs. Don, by the way, had a windmill tower on the back of his lot that he had dismantled from its former farm location, and re-erected it on Tuxedo south of 10th St. The club station was being readied to go on the air from the second floor location in the N.E. Community Center on E. 30th St. The club met downstairs and a dormer area made a nice location for the club gear. de W9DNQ

Rcvd a letter from our Wickenburg, Ariz. correspondent, Marsh Lincoln, W7DQS today. He says he was using the air conditioner in his car on the day it was 2 above here, and he couldn't work on his ant. becuz he had to mow the lawn. Aw, shu-u-u-u-t up, Marsh.

Ham-Ads

For Sale-

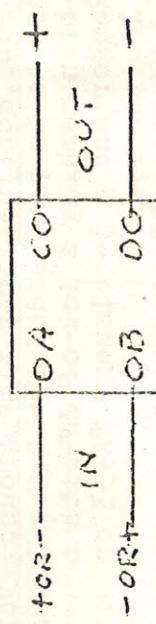
Heath Audio Osc. Mod. AG-8	\$12.00
Heath Volt. Calib. Mod. VC-2	\$10.00
Heath DX-40 Xmtr	\$20.00
Used only by and old maid school teacher on Sunday afternoons.	

Jerry Lucas W9ES 294-9372

Ads may be placed free by club members-50¢ to non-member's. S. *****

No 112-Nudger

Suppose you bought a box at one of the club auctions with four terminals on it as shown below. You found out through scientific experimentation(you know fooling around) that no matter which way you connected a D,C. input to A and B that terminals C and D always remained polarized as shown. You can't find a can opener, what could possibly be in the box?



Answer to last month's noodle nudger;

$$\sqrt{\frac{(4.0^2 + 4.0^2)^2}{2}} + 4.0^2 \cdot 4 + 8 = 203.948$$

Although I haven't collected from RCA yet for this ad, I think that \$1.00 for a 2 yr. subscription(8 issues) to RCA Ham Tips is a good buy. Yeah, I know that you can pick it up free at the local emporiums, but somehow I always miss some. Address RCA Section 832, Harrison, N.J. 07029 *****

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JOS. G.

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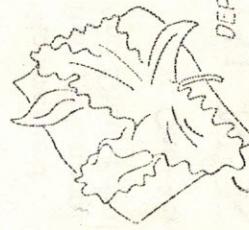
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Splatter

From Gerry Bramblett, W9POF, we learn that the following students in the Tech High School Commercial Radio Classes have all received either Novice or General tickets since June of '67; Joe Pine, L¹ John Pine, L¹ Paul Pinella, Samuel Carter, Harry Vien, Roger Kennedy, James Meyers, Charles Matthews

Looks as if the Pinella boys might have an ideal set up for field day and SS. Congratulations fellows, we are looking forward to seeing you at club meetings and on the air. *****

Congratulations are also in order for Frank Fitch, W9EJW, who passed the Advanced Exam on Feb., 8th (The first time around, yet!) Frank says he is now headed for Extra Class, and has been working a lot of CW with a Viking Ranger and a 3- element TA-33 on 15 with low power. *****

PSE, BS, and JJC are getting nearer to getting on 6-TW. They are cultivating the friendship of Gary Hughes, Dick Andrews, and other experts just in case. *****

WA9QIF reports from Purdue that he can't understand why it takes seven pages of calculus to explain Kirchoff's first law, before the text even states the law. *****

Don't forget, this is your paper, and will continue to be your paper only as long as you keep sending in the news. Thx to all those who did. - 8 -

